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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,421	03/26/2004	Fusao Ishiguchi	04536.034001	2620
22511	7590	04/01/2010	EXAMINER	
OSHA LIANG L.L.P.			HAILU, TESHOME	
TWO HOUSTON CENTER			ART UNIT	PAPER NUMBER
909 FANNIN, SUITE 3500			2434	
HOUSTON, TX 77010			NOTIFICATION DATE	
			04/01/2010	
			DELIVERY MODE	
			ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/811,421	Applicant(s) ISHIGUCHI, FUSAO
	Examiner TESHOME HAILU	Art Unit 2434

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 15 December 2009.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-8 is/are pending in the application.

4a) Of the above claim(s) is/are withdrawn from consideration.

5) Claim(s) is/are allowed.

6) Claim(s) 1-8 is/are rejected.

7) Claim(s) is/are objected to.

8) Claim(s) are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. .
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date

5) Notice of Informal Patent Application

6) Other:

DETAILED ACTION

1. This office action is in reply to an amendment filed on December 15, 2009. Claim 1-8 have been amended.
2. Claims 1-8 are pending.

Response to Amendment

3. Applicant's arguments filed on December 15, 2009, with respect to 35 USC 103(a) rejections of claims 1-8 have been fully considered but are moot in view of the new ground(s) of rejection.
4. Applicant's arguments filed on December 15, 2009, with respect to the 35 USC 112 rejections of claims 1, 5 and 8 have been fully considered and withdrawn due to the amendment made to the claims.
5. Applicant argues that the art on record, Doiron (US 5,481,610) in view of Nakano (US Pub. No. 2003/0182565), fails to teach the claim limitation, "the key data is configured to be modified by a key data writing equipment". Examiner respectfully disagrees. Examiner would point out that Nakano teach this limitation as, (paragraph 113, the key setting system 104 has a key information storage unit 301, a key information generation unit 302, an invalid terminal designation unit 303, a key information updating unit 304, a decryption key determining unit 305, and an encryption key designation unit 306). Both the key information generation unit (writing equipment) and key information updating unit (modifying) are a part of key setting system (see fig. 3 of Nakano)). Also applicant mentioned that a key information updating unit 304 of Nakano merely updates invalidation information regarding key information which is completely independent of the key data. However, the invalidation information is a part of the key information and updating the invalidation information is the same as updating the key information.
6. Applicant argues that the art on record, Doiron (US 5,481,610) in view of Nakano (US Pub. No. 2003/0182565), fails to teach the newly added claim limitation, "the rewritable flash memory is attached to the digital video disc device in a detachable manner". Examiner agrees that both of the prior art does not

disclosed about the memory is in form of detachable. However making the memory separable (detachable) or fixed (mounted) does not make any different as long as both produce the same kind of output (result). See MPEP 2144.04.

C. Making Separable

In re Dulberg, 289 F.2d 522, 523, 129 USPQ 348, 349 (CCPA 1961) (The claimed structure, a lipstick holder with a removable cap, was fully met by the prior art except that in the prior art the cap is "press fitted" and therefore not manually removable. The court held that "if it were considered desirable for any reason to obtain access to the end of [the prior art's] holder to which the cap is applied, it would be obvious to make the cap removable for that purpose.").

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doiron et al (US 5,481,610) in view of Nakano (US Pub. No. 2003/0182565) and further in view of Sibert (US 7,058,805).

As per claim 1 Doiron discloses:

A digital video disc device, comprising: a rewritable flash memory including program information and an area of prescribed size in which key data associated with information on a digital video disc is recorded in advance in a prescribed address in an unused specific area of the area of prescribed size; (abstract, line 1-6, a digital radio has standardized "key" storage for several different cryptosystems (DES,

VGE, VGS, etc.). Cryptographic keys are stored in a table in non-volatile memory such as EEPROM).

Also see fig. 2.

Random data is written in all of the unused area around an area where the key data is recorded in the specific area of the flash memory, (column 4, line 18-37, a digital radio has standardized "key" storage for several different cryptosystems (DES, VGE, VGS, etc.). Cryptographic keys are stored in a table in non-volatile memory such as EEPROM. As a result, the stored key itself looks like the stored random data and it would be hard for an attacker to identify the cryptographic keys from the random data). Also see the table in fig.3

Means for accessing the information on the digital video disc using the key data read from the prescribed address in the flash memory; (column 1, line 5-13, the invention relates to radio frequency (RF) communications systems, and more particularly to digital radios having a "secure" mode that encrypts and decrypts messages. Still more particularly, the present invention relates to techniques for securely loading and storing cryptographic key information within a mobile or portable radio transceiver).

Doiron does not explicitly discloses, the information on a digital video disk. However, in the same field of endeavor, Nakano teach this limitation as, (page , paragraph 7, the DVD right protection system each DVD reproduction terminal for reproducing digital content recorded on a distributed DVD pre-stores a master key. The master key is determined by the manufacturer of the particular reproduction terminal. The reproduction terminal, which uses this master key in the decryption process, has a function of ultimately decrypting and reproducing the digital content recorded on the DVD).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention was made, to modify the teaching of Doiron and include the information on a digital video disk using the teaching of Nakano in order to substitute one method for the other to achieve the predictable result of securing information in electronic media using the key data stored in memory.

The key data is configured to be modified by a key data writing equipment. (Column 10, line 60-65, as cryptographic keys are loaded into the bank 86, the bit-mask byte 90 is updated to indicate which keys within the bank are valid).

Doiron does not explicitly disclose that the key data can be modified by key data writing equipment. However, in the same field of endeavor, Nakano teach this limitation as, (page, paragraph 113, the key setting system 104 has a key information storage unit 301, a key information generation unit 302, an invalid terminal designation unit 303, a key information updating unit 304, a decryption key determining unit 305, and an encryption key designation unit 306). Both the key information generation unit (writing equipment) and key information updating unit (modifying) are a part of key setting system (see fig. 3 of Nakano).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention was made, to modify the teaching of Doiron and include the limitation, "the key data can be modified by key data writing equipment", using the teaching of Nakano in order to make the key information valid by updating (modifying) with right and most up-to-date information (see paragraph 117 of Nakano).

The rewritable flash memory is attached to the digital video disc device in a detachable manner. (Abstract, line 1-6, a digital radio has standardized "key" storage for several different cryptosystems (DES, VGE, VGS, etc.). Cryptographic keys are stored in a table in non-volatile memory such as EEPROM).

Doiron and Nakano does not explicitly disclose about a rewritable flash memory including program information. However, in the same field of endeavor, Sibert teach this limitation as, (column 5, line 52-64, as shown in FIG. 4A, encoding system 28 preferably includes: a processing unit 50; system memory 52--preferably including both high speed random access memory (RAM) and non-volatile memory, such as read only memory (ROM), erasable or alterable non-volatile memory (e.g., flash memory), and/or a hard disk for storing system control program, data, cryptographic keys encryption routines, and corresponding decryption/validation routines designed to process data in accordance with the principles of the present invention).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention was made, to modify the teaching of Doiron and Nakano to include a rewritable flash memory

which include a program information using the teaching of Sibert in order to properly control the system using the stored control program (see column 6, line 35-40, of Sibert).

Claims 5 and 8 are rejected under the same reason set forth in rejection of claim 1:

As per claim 2 Doiron in view of Nakano and further in view of Sibert discloses:

The digital video disc device according to claim 1, wherein the key data is an encryption key for equipment for encrypting and recording the information on the digital video disc. (Column 8, line 1-33, the EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

As per claims 3 in view of Nakano and further in view of Sibert discloses:

The digital video disc device according to claim 2, wherein the key data is a decryption key for equipment for decrypting the information read from the digital video disc. (Column 8, line 1-33, the EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

Claim 4 is rejected under the same reason set forth in rejection of claim 3:

As per claim 6 Doiron in view of Nakano and further in view of Sibert discloses:

The method of recording prescribed information according to claim 5, wherein the memory is mounted on equipment for a digital video disc, (see the EEPROM on fig. 2).

The prescribed information is key data associated with information on a digital video disc. (Column 9, line 33-52, "meaningful" data stored within table 78 includes a first byte random value 82, a kth byte random value 84, and at least one (and typically many) cryptographic keys stored in key banks residing within a cryptographic key block 86).

As per claim 7 Doiron in view of Nakano and further in view of Sibert discloses:

The method of recording prescribed information according to claim 5, wherein the prescribed information is a password. (Column 8, line 1-33, the EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESHOME HAILU whose telephone number is (571)270-3159. The examiner can normally be reached on Mon-Fri 7:30a.m. to 5:00p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Teshome Hailu/

Examiner, Art Unit 2434

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2434